

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number
WO 2004/112987 A3

(51) International Patent Classification⁷: **B65B 1/08**

(21) International Application Number:
PCT/IL2004/000563

(22) International Filing Date: 24 June 2004 (24.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/482,002 25 June 2003 (25.06.2003) US

(71) Applicants and

(72) Inventors: **HAITIN, David** [IL/IL]; 51a Herut Street,
52551 Ramat-Gan (IL). **SERBY, Reuven** [IL/IL]; 4
Kehilat Saloniki Street, 69 513 Tel Aviv (IL).

(74) Agent: **G.E. EHRLICH (1995) LTD.**; 11 Menachem Be-
gin Street, 52 521 Ramat Gan (IL).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

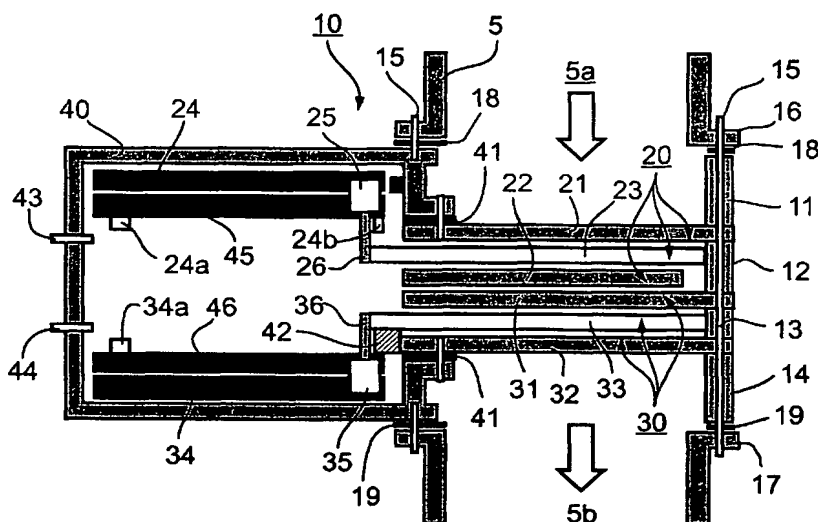
Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the International search report:
21 July 2005

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: GATING SYSTEM FOR FLOWABLE MATERIAL AND CONVEYING APPARATUS INCLUDING SAME



(57) Abstract: A gating system for controlling a flowable material through a passageway having an inlet and an outlet, the gating system includes: an inlet blade assembly between the passageway inlet and passageway outlet, the inlet blade assembly including an inlet blade and a drive for moving the inlet blade to open and closed positions with respect to the passageway; an outlet blade assembly between the inlet blade assembly and the passageway outlet, the outlet blade assembly including an outlet blade and a drive for moving the outlet blade to open and closed positions with respect to the passageway; and a control system that drives for moving the inlet blade to its closed position before moving the outlet blade to its closed position with respect to the passageway, and moves the outlet blade to its open position before moving the inlet blade to its open position.